

ABSTRACT

An apparatus for and method of detecting a binding event between biomolecules is disclosed and includes admixing a target molecule including a first fluorophore and membrane vesicles including a trifunctional linker molecule, said
5 trifunctional linker molecule including a second fluorophore, to form a sample, introducing a library of elements into said sample, each of said library elements having a binding affinity for said trifunctional linker molecule, and, screening said sample for fluorescence from said first fluorophore and said second fluorophore, such fluorescence indicative of a binding event between an element from said
10 library of elements and said target molecule.